

## Amendments to the Claims

The listing of claims will replace all prior versions, and listings, of claims in the application:

### Listing of the Claims:

1. (Currently Amended) A method for providing an internet protocol (IP) address of at least one remote management processor~~computer~~ to a management server~~computer~~, the method comprising:

configuring~~receiving~~ in an IP~~internet protocol (IP)~~ address issuing computer to include a plurality of IP addresses that are available and authorized to be assigned to at least one remote management processor which is coupled to a remote hardware server to perform management functions thereon, and to include Option data from a associated with the at least one remote management processor~~computer~~, such that the Option data comprises~~comprising: an identification of and authorization for a remote computer to request an IP address from the IP address issuing computer, and an IP address of the management computer~~server which is configured to communicate via a network with the at least one remote management processor to access information about hardware resources disposed within the remote hardware server coupled to the at least one remote management processor;

sending a request from the at least one remote management processor~~computer~~ to the IP address issuing computer for an IP address to be assigned to the at least one remote management processor;

in response to the request, receiving from the IP issuing computer, at the at least one remote computer~~management processor~~, an acknowledgement packet which includes the requested IP address assigned to the at least one remote management processor~~from the IP address issuing computer and the IP address of the management computer of the Option data;~~  
and

in response to receiving the acknowledgment packet, executing a local code in the at least one remote management processor~~computer~~ such that the local code in the remote computer is responsive to~~searches the acknowledgement packet to detect the IP address of the management computer of the Option data, and storing~~utilizes in the remote management processor, as a destination address for sending an alert packet, the received IP address of the management server included in the Option data~~computer to direct the remote computer; and~~

in response to the detecting of the Option data, to automatically sending the alert packet to the destination address by the at least one remote management processor~~provide~~, such that the alert packet includes the received requested IP address of the at least one remote management processor~~computer to the management computer~~.

2. (Currently Amended) The method of claim 1, ~~wherein the management computer is a management server, and the remote computer is a remote management processor under the control of the management server~~ further comprising:

in response to receiving the alert packet at the destination address, the management server stores information included in the alert packet, which information includes the IP address assigned to the at least one remote management processor and a shelf life of the assigned IP address.

3. (Currently Amended) The method of claim 2, wherein the IP address issuing computer is a Dynamic Host Configuration Protocol (DHCP) server, wherein a configuration file in the DHCP server identifies the plurality of IP addresses that are available and authorized to be assigned to the at least one remote management processor; and wherein the management server is running a management server software package to manage the at least one remote management processor.

4. (Cancelled)

5. (Currently Amended) The method of claim 32, wherein the sending of the request from the at least one remote management processor~~computer~~ to the IP address issuing computer for an address for the at least one remote management processor~~computer~~ is automatically prompted by the at least one remote management processor~~computer~~ being powered on.

6. (Currently Amended) The method of claim 34, wherein an administrator of the management server defines the Option data configured in the IP address issuing computer~~local code directs the remote computer to automatically provide the address of the remote computer to the management computer in an ALERT packet~~.

7. (Currently Amended). A system for providing an internet protocol (IP) address of ~~at least one~~ remote management processor~~computer~~ to a management server~~computer~~, the system comprising:

a management server~~computer~~;

~~at least one~~ remote management processor configured to be ~~computer~~ connected to the management server~~computer~~ through a network, wherein the at least one remote management processor is coupled to a remote hardware server to perform management functions thereon, and wherein the management server is configured to communicate via the network with the at least one remote management processor to access information about hardware resources disposed within the remote hardware server coupled to the at least one remote management processor;

an IP~~internet protocol (IP)~~ address issuing computer connected to the management ~~computer~~ and the at least one remote management processor~~computer~~ through the network, wherein

the IP address issuing~~management~~ computer is configured to include a plurality of IP addresses that are available and authorized to be assigned to the at least one remote management processor, and to include send Option data from the management computer to the IP address issuing computer~~which is associated with the at least one remote management processor and includes the Option data comprising: an identification of and authorization for the remote computer to request an IP address from the IP address issuing computer, and an IP address of the management server~~~~computer;~~

the at least one remote management processor~~computer~~ sends a request to the IP address issuing computer for an IP address to be assigned to the at least one management processor;

the IP address issuing computer assigns an IP address to the at least one remote management processor in response to the request and sends an acknowledgment packet to the at least one remote management processor which includes the assigned IP address and the Option data;

the at least one remote management processor~~computer~~ receives the acknowledgement packet~~requested IP address from the IP address issuing computer and IP address of the management computer of the Option data;~~ and

a local code in the at least one remote management processor~~computer~~ searches

the acknowledgement packet to detect the Option data and stores in the at least one remote management processor, as a destination address for sending an alert packet, the received being responsive to the IP address of the management server computer of included in the Option data utilizes; and

in response to the detecting of the Option data, automatically sending the alert packet to the destination address by the at least one remote management processor to enable the communication between the management server and the at least one management processor via the network the received IP address of the management computer to direct the remote computer to provide the received requested IP address of the remote computer to the management computer.

8. (Currently Amended) The system of claim 7, ~~wherein the management computer is a management server, and the remote computer is a management server sub-system under the control of the management server~~further comprising:

in response to receiving the alert packet at the destination address, the management server stores information included in the alert packet, which information includes the IP address assigned to the at least one remote management processor and a shelf life of the assigned IP address.

9. (Currently Amended) The system of claim 8, wherein the IP address issuing computer is a Dynamic Host Configuration Protocol (DHCP) server, wherein a configuration file in the DHCP server identifies the plurality of IP addresses that are available and authorized to be assigned to the at least one remote management processor; and wherein the management server is running a management server software package to manage the at least one remote management processor.

10. (Cancelled)

11. (Currently Amended) The system of claim 9, wherein the sending of the request from the at least one remote management processor computer to the IP address issuing computer for an IP address for the at least one remote management processor computer is prompted by the at least one remote management processor computer being powered on.

12. (Currently Amended) A computer program product, residing on a computer storage medium, for providing an internet protocol (IP) address of at least one remote management processor~~computer~~ to a management server~~computer~~, the computer program product including program code that when executed by a computer includes functionality comprising:

~~sending Option data from a management computer to an IP address issuing computer, the Option data comprising:~~

~~an identification of and authorization for a remote computer to request an IP address from the address issuing computer; and~~

~~an IP address of the management computer;~~

~~sending a request from the remote computer to the address issuing computer for an IP address;~~

~~receiving at the remote computer the requested IP address from the IP address issuing computer and the IP address of the management computer of the Option data; and~~

~~executing a local code in the remote computer such that the local code in the remote computer is responsive to the IP address of the management computer of the Option data and utilizes the received IP address of the management computer to direct the remote computer to provide the received requested IP address of the remote computer to the management computer~~

configuring an IP address issuing computer to include a plurality of IP addresses that are available and authorized to be assigned to at least one remote management processor which is coupled to a remote hardware server to perform management functions thereon, and to include Option data associated with the at least one remote management processor, such that the Option data comprises an IP address of a management server which is configured to communicate via a network with the at least one remote management processor to access information about hardware resources disposed within the remote hardware server coupled to the at least one remote management processor;

sending a request from the at least one remote management processor to the IP address issuing computer for an IP address to be assigned to the at least one remote management processor;

in response to the request, receiving from the IP issuing computer, at the at least one remote management processor, an acknowledgement packet which includes the requested IP

address assigned to the at least one remote management processor and the Option data;

in response to receiving the acknowledgment packet, executing a local code in the at least one remote management processor such that the local code searches the acknowledgement packet to detect the Option data, and storing in the remote management processor, as a destination address for sending an alert packet, the received IP address of the management server included in the Option data; and

in response to the detecting of the Option data, automatically sending the alert packet to the destination address by the at least one remote management processor, such that the alert packet includes the received requested IP address of the at least one remote management processor.

13. (Currently Amended) The computer program product of claim 12, ~~wherein the management computer is a management server, and the remote computer is a management processor under the control of the management server~~ further comprising:

in response to receiving the alert packet at the destination address, the management server stores information included in the alert packet, which information includes the IP address assigned to the at least one remote management processor and a shelf life of the assigned IP address.

14. (Currently Amended) The computer program product of claim 13, wherein the IP address issuing computer is a Dynamic Host Configuration Protocol (DHCP) server, wherein a configuration file in the DHCP server identifies the plurality of IP addresses that are available and authorized to be assigned to the at least one remote management processor; and wherein the management server is running a management server software package to manage the at least one remote management processor.

15. (Cancelled)

16. (Currently Amended) The computer program product of claim 14~~13~~, wherein the sending of the request, from the at least one remote management processor~~computer~~ to the IP address issuing computer, for an address for the at least one remote management processor~~computer~~ is automatically prompted by the at least one remote management

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processorcomputer being powered on.

17-21. (Cancelled)